



# ASSOCIATION OF OLD CROWS MODELING AND SIMULATION AWARD

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## Payoff

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Ms. Marilyn Shaw was presented the 1996 Association of Old Crows Modeling and Simulation Award by the Dayton Area Kittyhawk Chapter for her management of the Sensors Directorate's Integrated Electronic Warfare Systems Effectiveness Evaluation Research Program. This program led to a technology breakthrough for real-time electronic warfare simulation. This electronic warfare real-time man/hardware-in-the-loop simulation capability provides rapid development of electronic warfare technology for the warfighter.

## Accomplishment

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Ms. Marilyn Shaw of the Sensors Directorate's System Concepts and Simulation Division received the Association of Old Crows Modeling and Simulation Award for her role in the development of an electronic warfare real-time man/hardware-in-the-loop simulation capability. This is a key simulation research capability for rapidly prototyping and transitioning technology for aging aircraft avionics.

## Background

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Since joining the Directorate in 1989, Ms. Shaw has played a major role in the development of an electronic warfare real-time man/hardware-in-the-loop simulation capability for the Directorate's Integrated Defensive Avionics Laboratory (IDAL) facility. Air Force decision makers use this capability to obtain timely electronic warfare effectiveness data to plan and implement their programs on an affordable basis to meet the needs of the operational forces. Defense contractors, working as partners with Air Force Research Laboratory, use IDAL to determine the benefits or risks of new enabling technology for the Air Force prior to the commitment of large resources. Ms. Shaw's research has led to the Directorate's ability to generate a real-time, high fidelity synthetic battlespace. IDAL enables man/hardware-in-the-loop interaction with dense threat environments, an Air Force first. Her initiatives have greatly enhanced the electronic warfare technologist's ability to respond to urgent warfighter needs in a timely and affordable basis. IDAL is now the facility of choice for developing advanced electronic warfare processing technology and has helped move the Air Force a step closer to its modeling and simulation vision.